

FIG. 1A

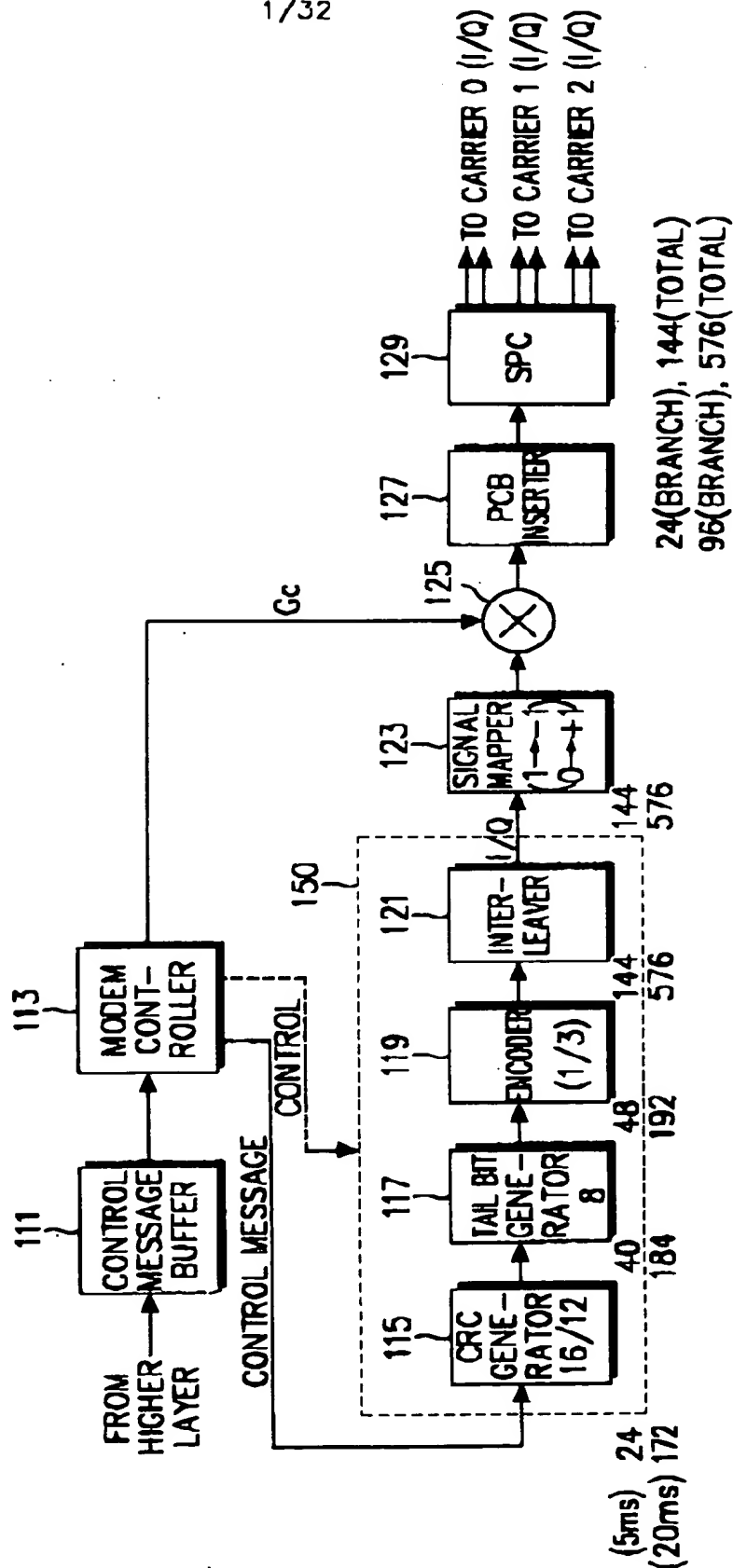
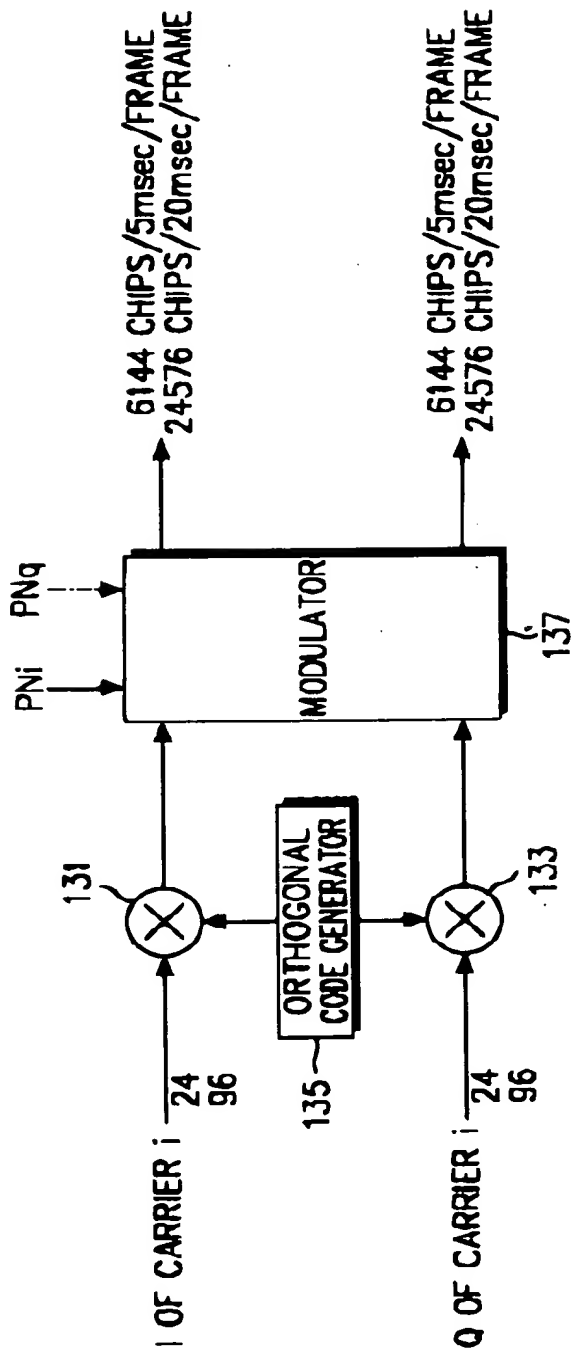


FIG. 1B





# FIG. 3

The diagram illustrates a power control system for a mobile station. The process begins with a **FIRST DESPREADER** (301) which feeds into a **SECOND DESPREADER** (303). The output of the second despreader is multiplied by a pilot signal (314) in a multiplier (314). The result is then processed by an **EXTRACTOR** (317). The extractor's output is fed into a **DECODER** (319), which then feeds into a **CRC ERROR DETECTOR** (321). The CRC error detector's output is fed into a **DATA DETECTOR** (323). The data detector's output is fed into a **MODEM CONTROLLER** (325). The modem controller's output is fed into a **CONTROL MESSAGE BUFFER** (327). The modem controller also feeds into a **FRAME DETECTOR** (322). The frame detector's output is fed into the **MODEM CONTROLLER** (325). The **MODEM CONTROLLER** (325) also feeds into an **OUTER-LOOP POWER CONTROLLER** (329). The **OUTER-LOOP POWER CONTROLLER** (329) outputs a signal (2) to the **SECOND DESPREADER** (303) and a signal (4) to the **CLOSED-LOOP POWER CONTROLLER** (315). The **SECOND DESPREADER** (303) also feeds into a **NOISE MEASURER** (311) and a **BIT ENERGY MEASURER** (309). The **NOISE MEASURER** (311) outputs a signal (3) to the **OUTER-LOOP POWER CONTROLLER** (329). The **BIT ENERGY MEASURER** (309) outputs a signal (3) to the **OUTER-LOOP POWER CONTROLLER** (329) and a signal (4) to the **CLOSED-LOOP POWER CONTROLLER** (315). The **CLOSED-LOOP POWER CONTROLLER** (315) also feeds into the **MODEM CONTROLLER** (325). The **MODEM CONTROLLER** (325) also feeds into the **CLOSED-LOOP POWER CONTROLLER** (315). The **CLOSED-LOOP POWER CONTROLLER** (315) outputs a signal (3) to the **OUTER-LOOP POWER CONTROLLER** (329) and a signal (4) to the **CLOSED-LOOP POWER CONTROLLER** (315). The **CLOSED-LOOP POWER CONTROLLER** (315) also feeds into a **SNR CALCULATOR** (313). The **SNR CALCULATOR** (313) outputs a signal (3) to the **OUTER-LOOP POWER CONTROLLER** (329) and a signal (4) to the **CLOSED-LOOP POWER CONTROLLER** (315). The **CLOSED-LOOP POWER CONTROLLER** (315) also feeds into a **TRANSMIT PCB**.

FIG. 4

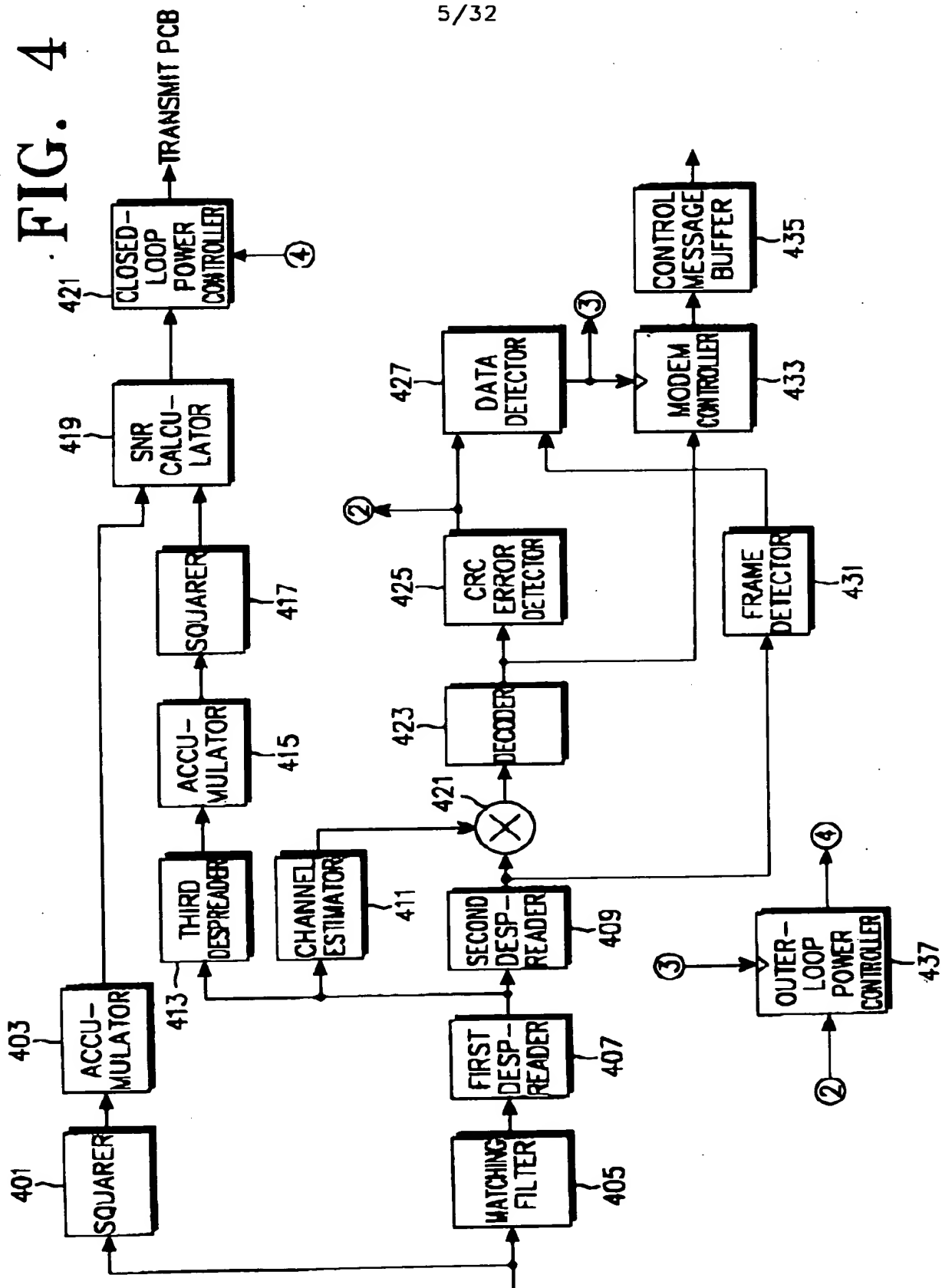
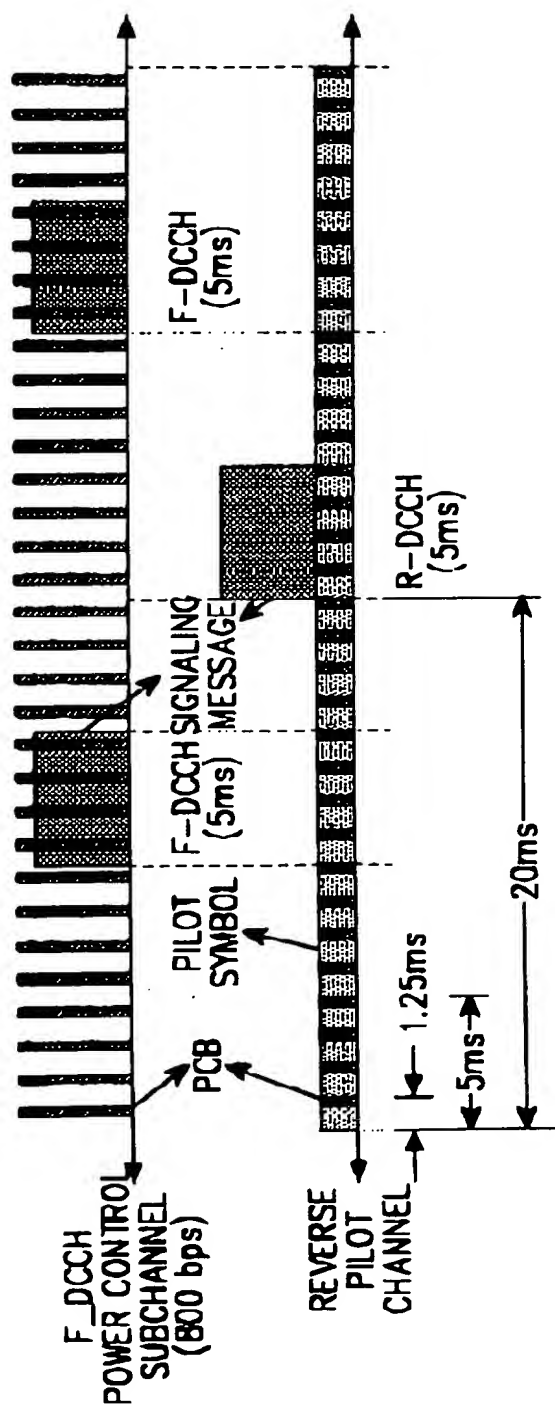


FIG. 5



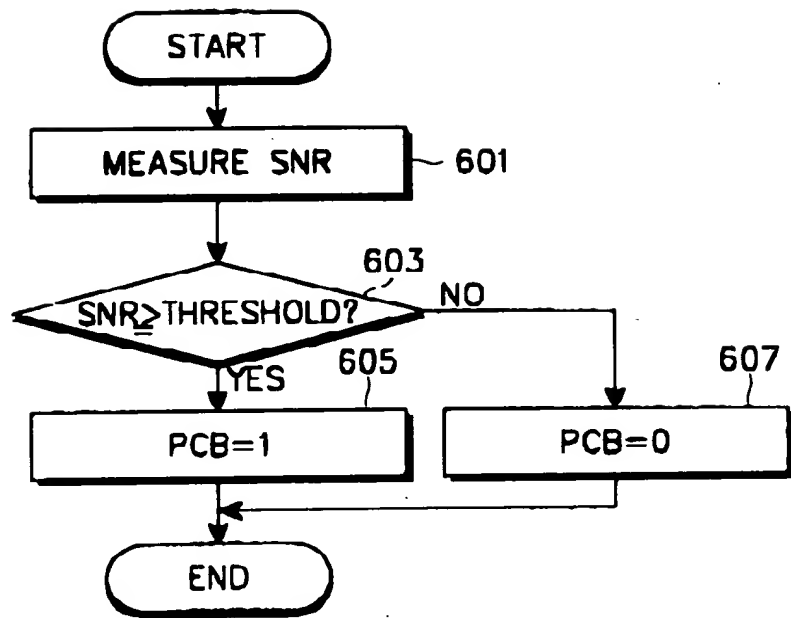


FIG. 6

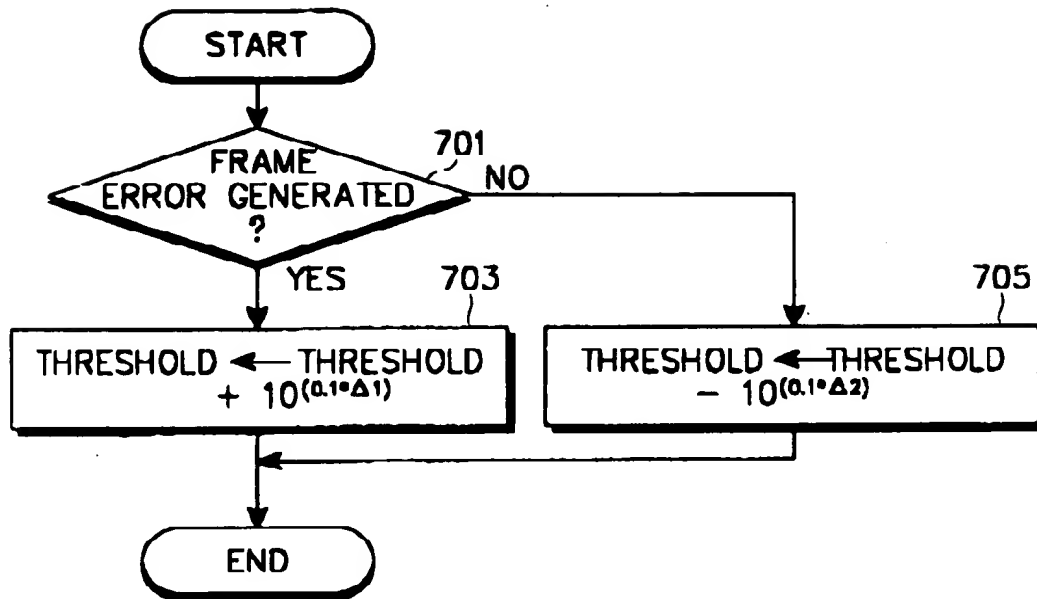
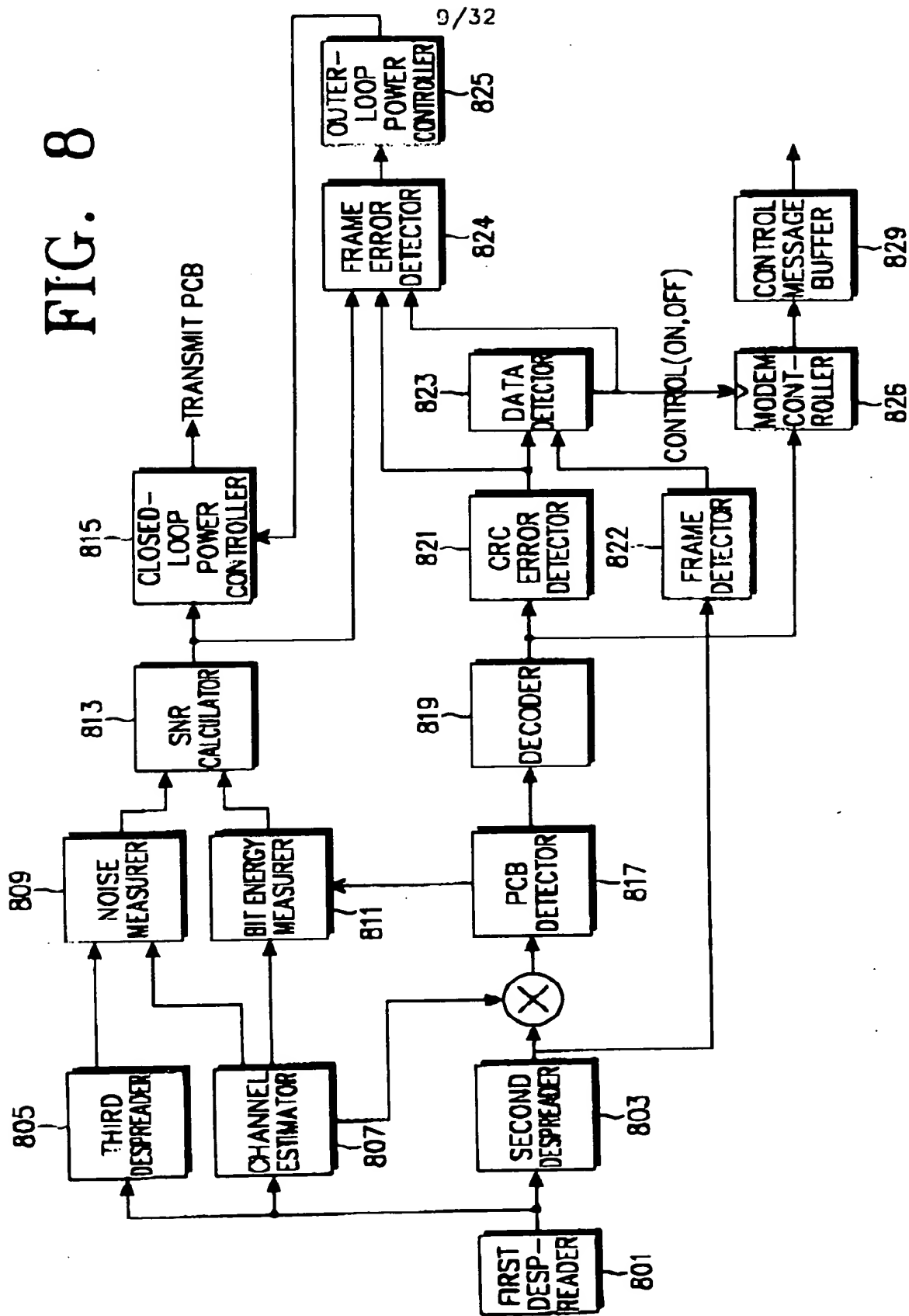


FIG. 7



FIG. 8





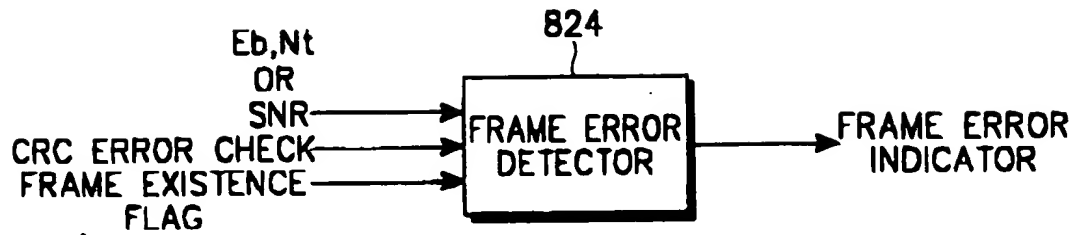


FIG. 10A

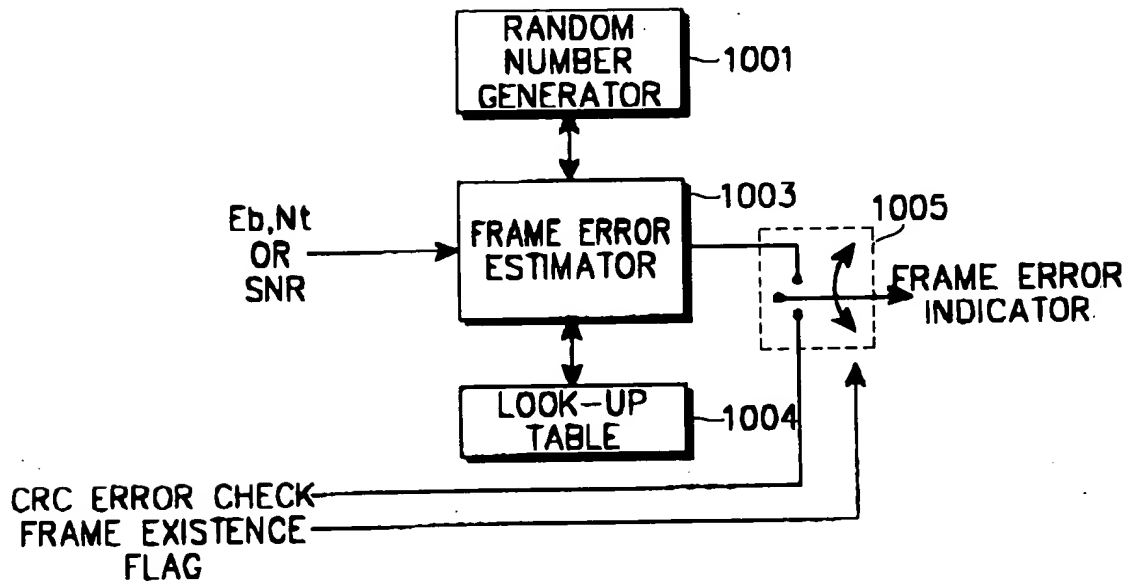


FIG. 10B

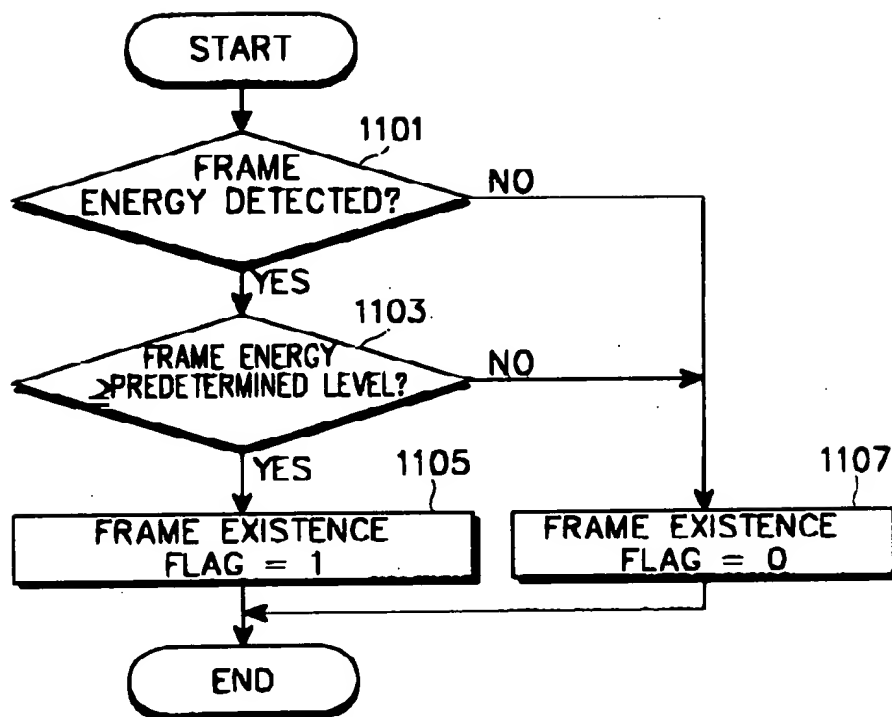


FIG. 11

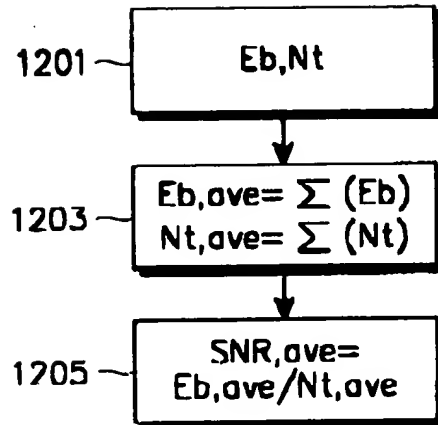


FIG. 12A

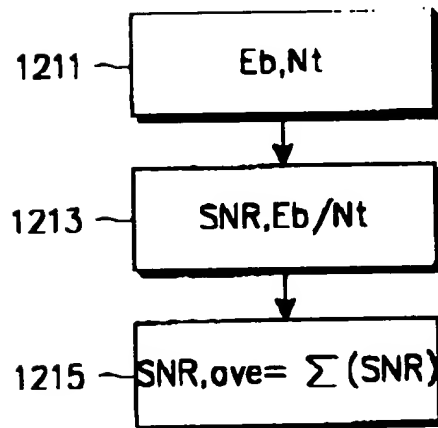


FIG. 12B

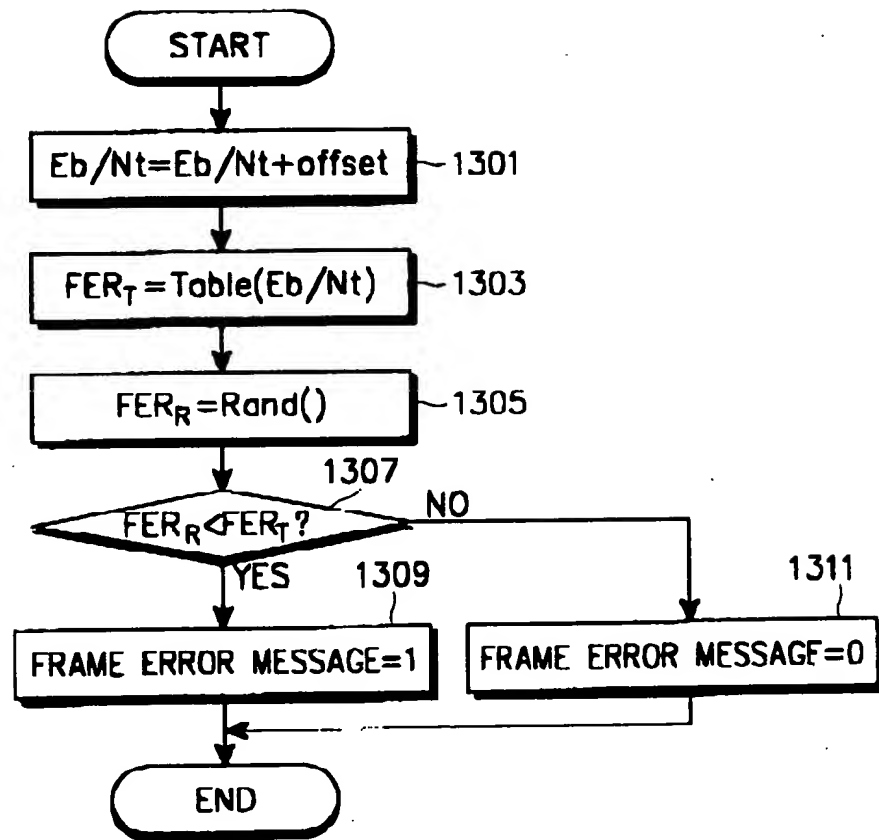


FIG. 13

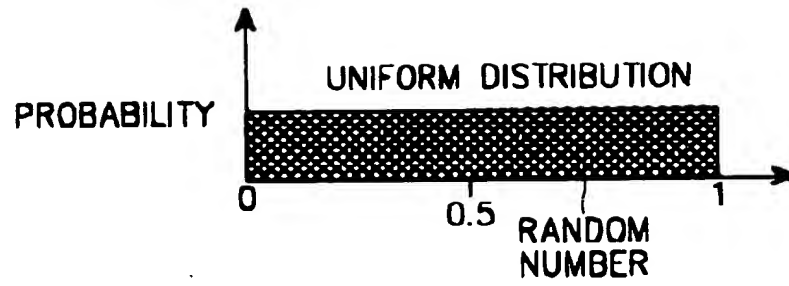


FIG. 14A

| $E_b/N_0$ | FER |
|-----------|-----|
| ⋮         | ⋮   |

FIG. 14B

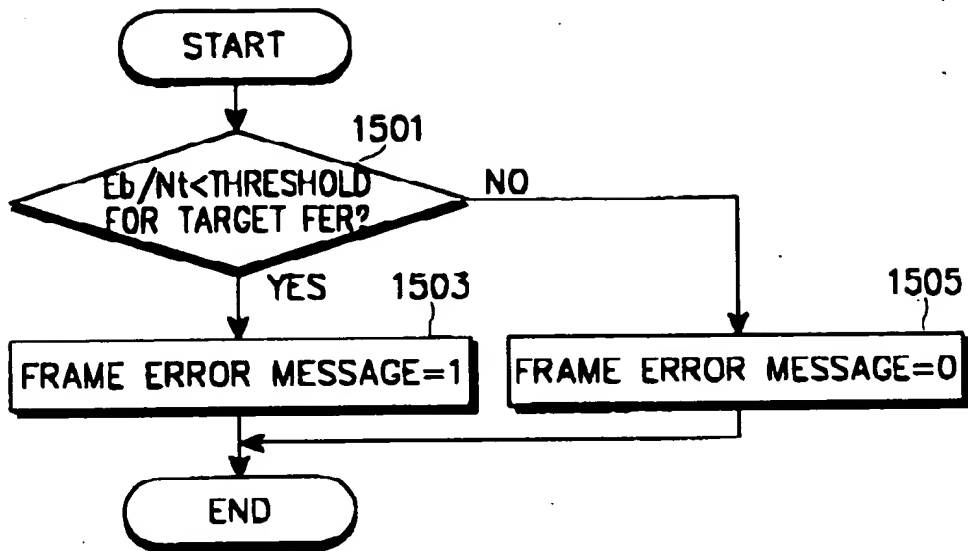


FIG. 15

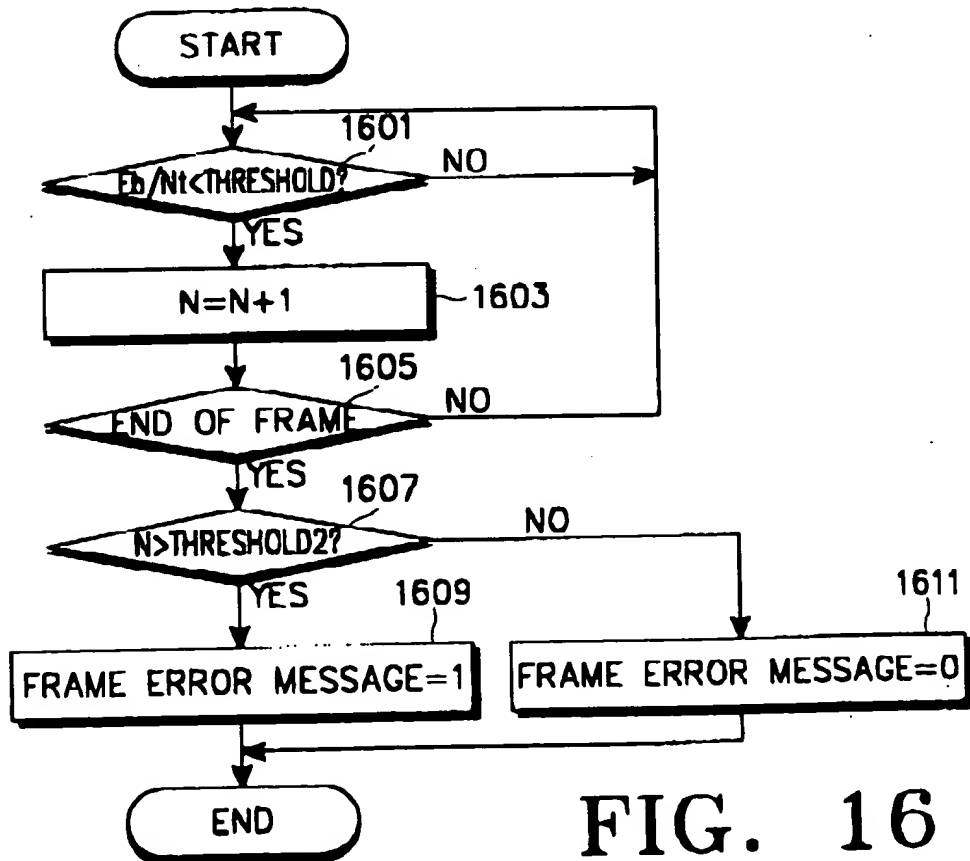
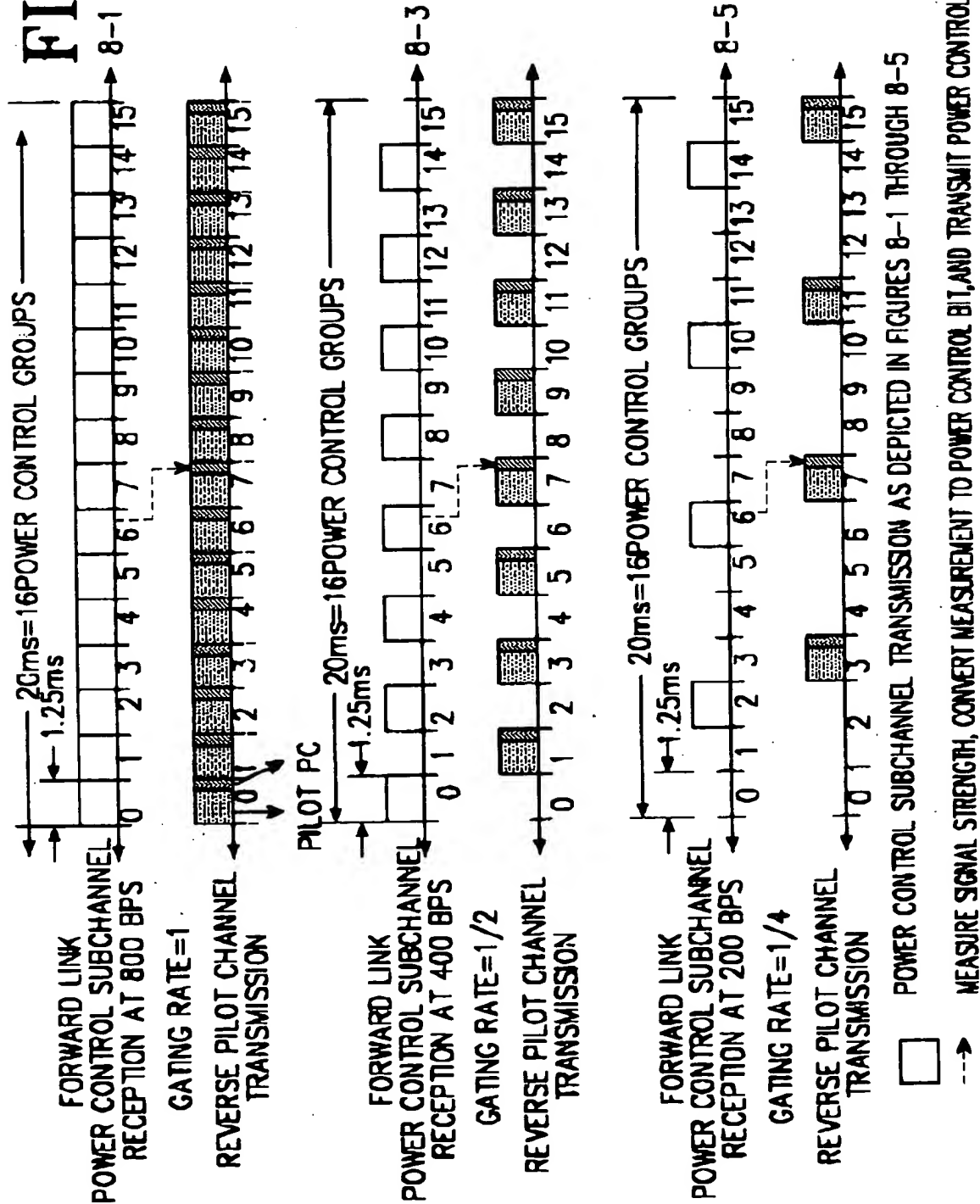


FIG. 16



FIG. 17



**FIG. 18A**

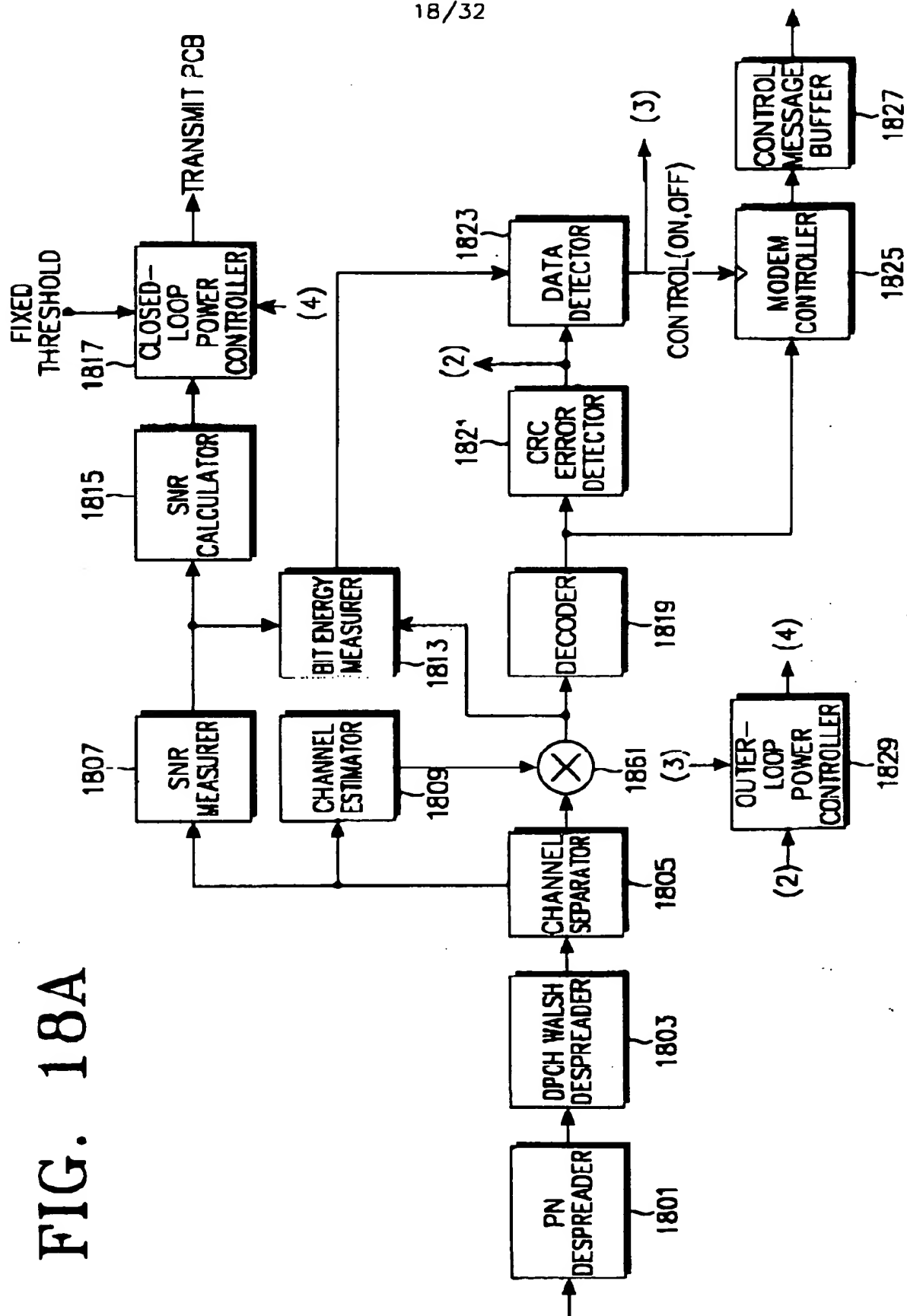




FIG. 19A

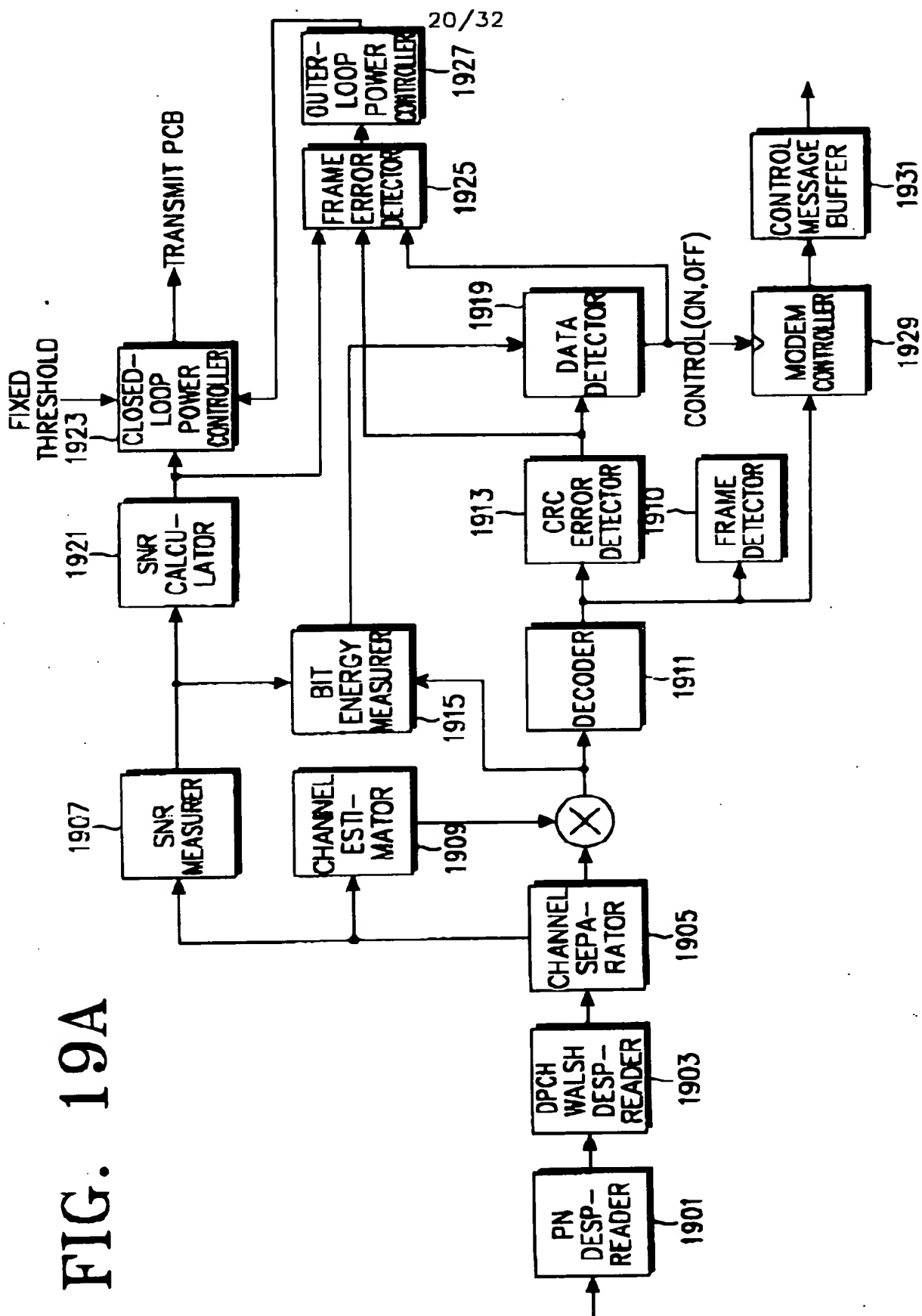


FIG. 19B

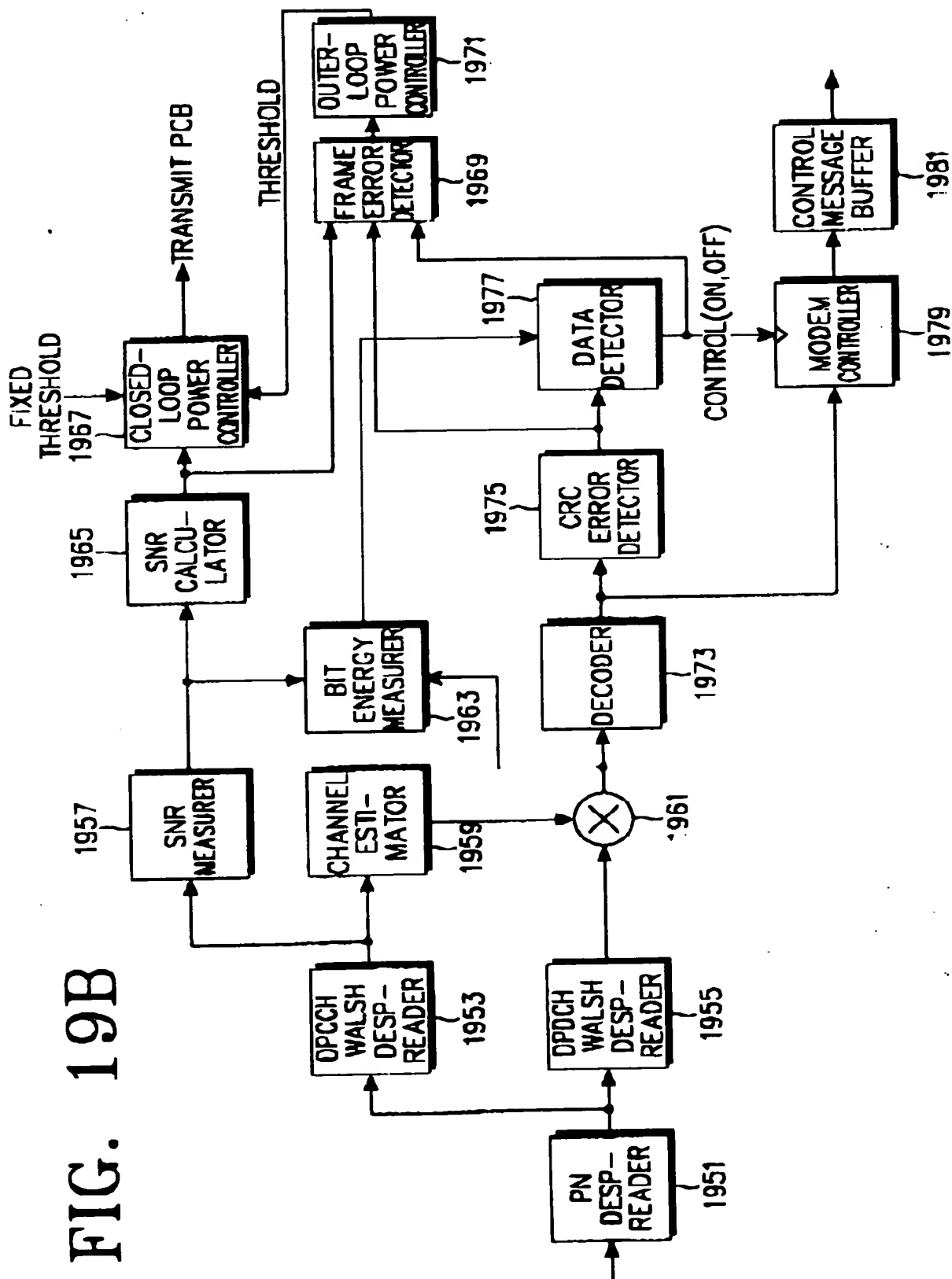


FIG. 20

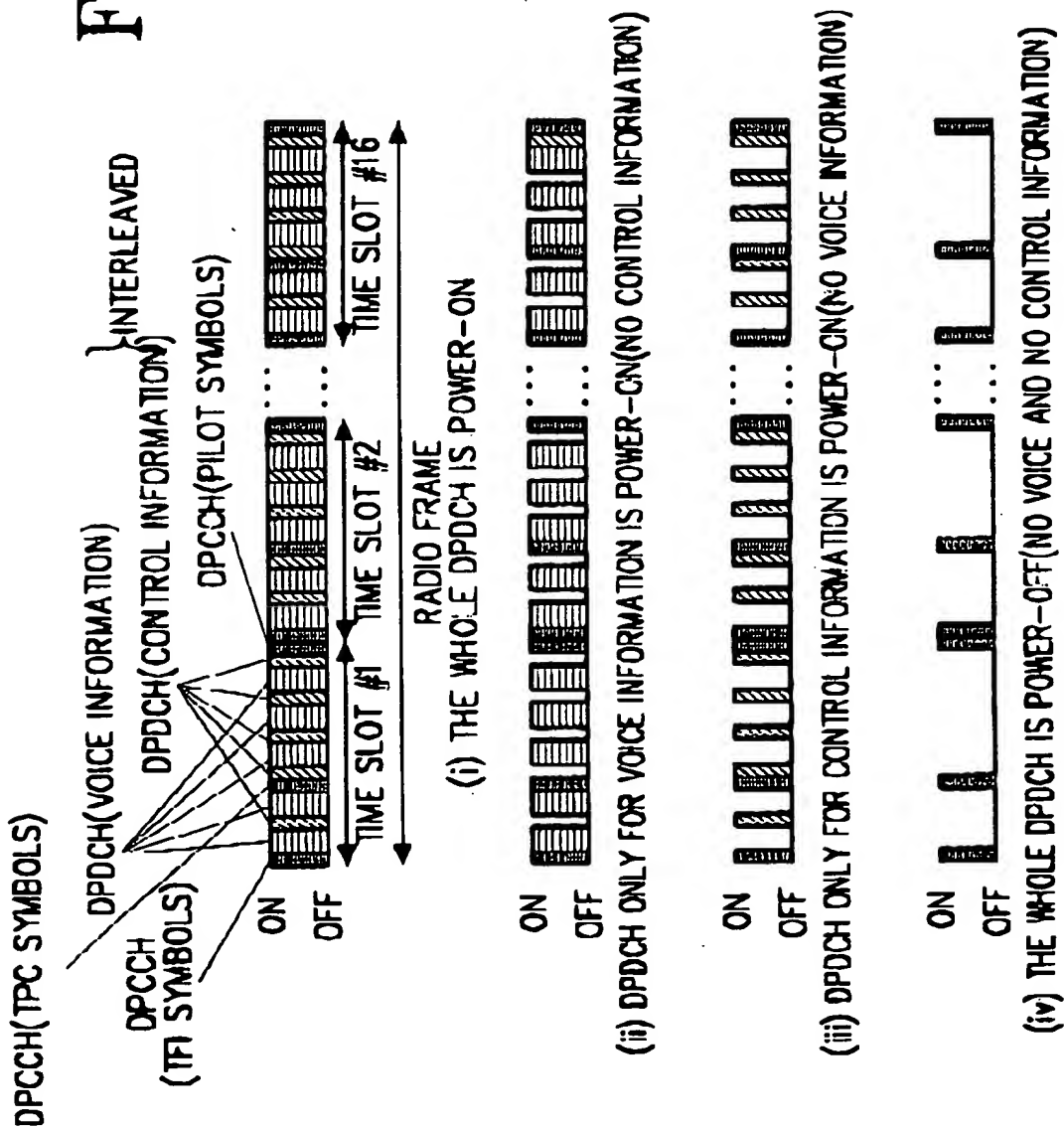
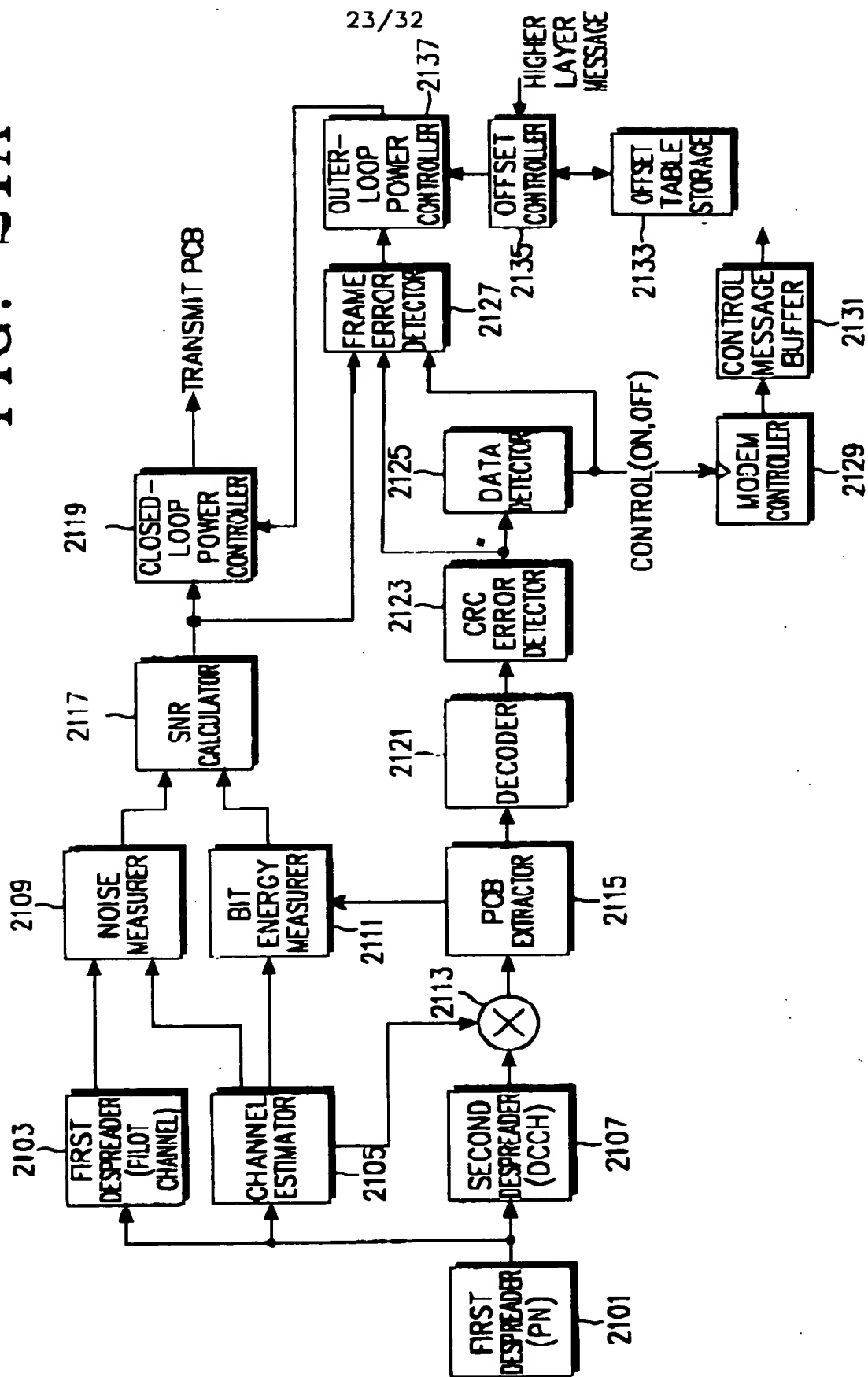


FIG. 21A



**FIG. 21B**

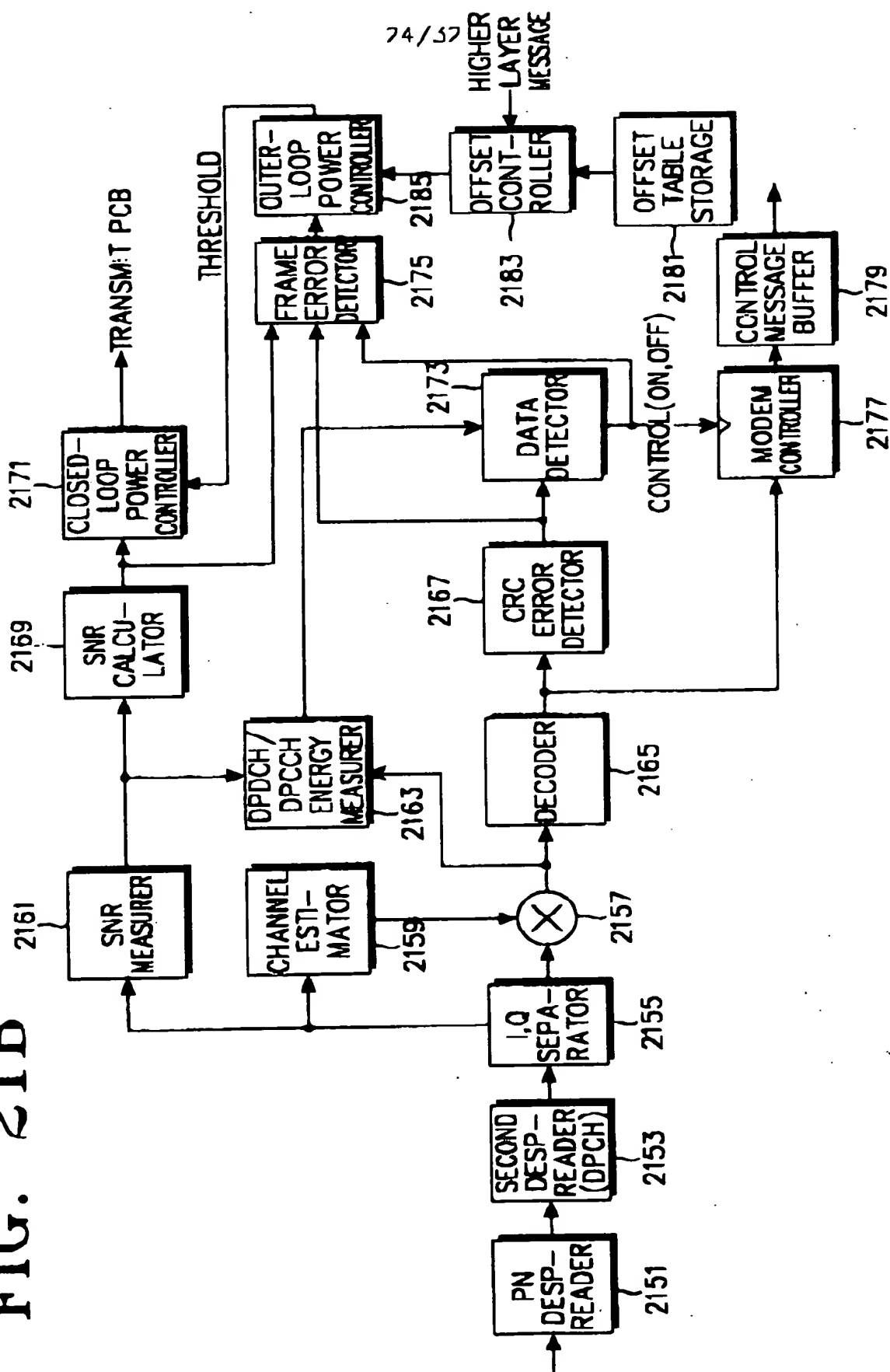




FIG. 22A

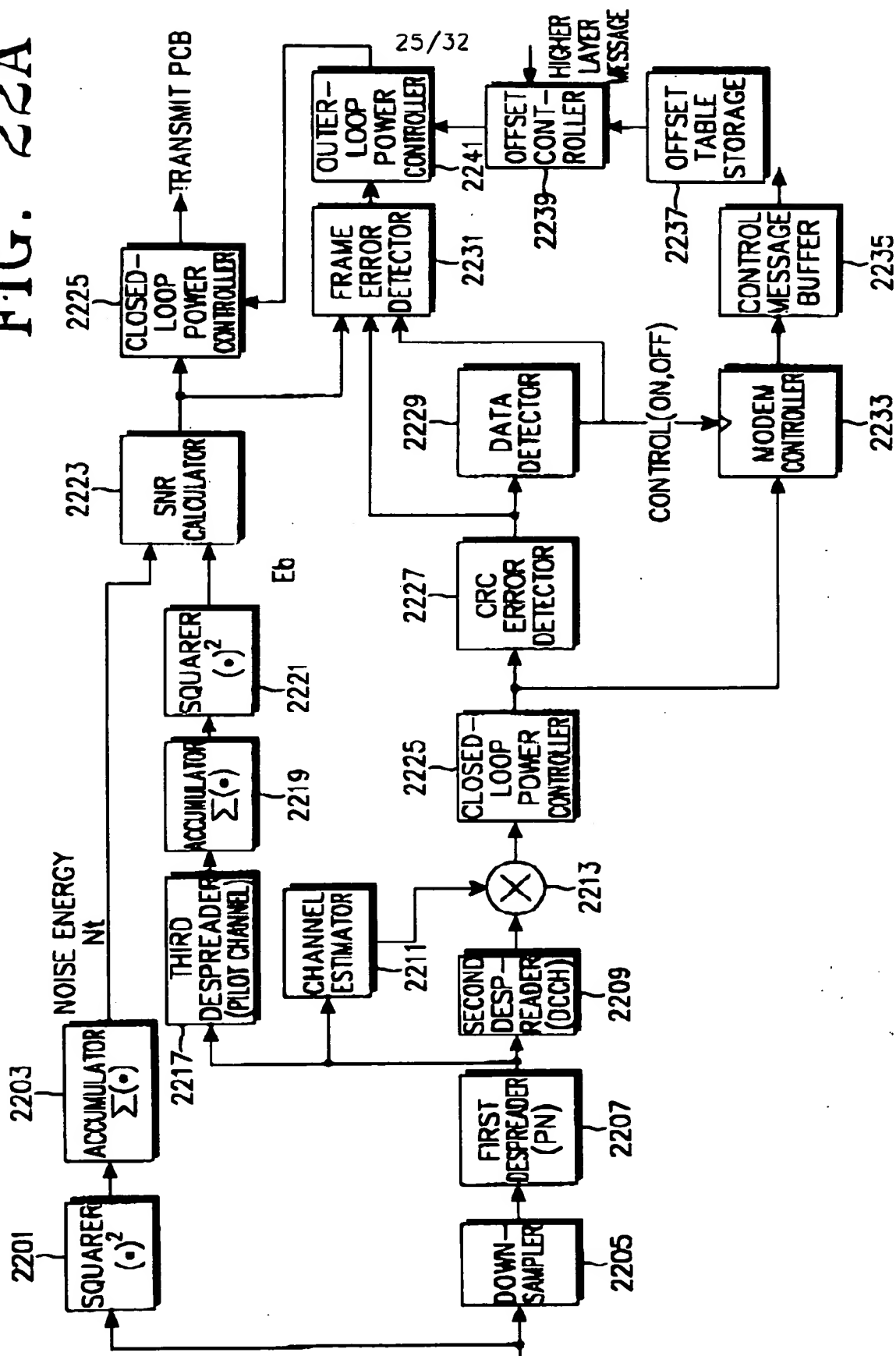






FIG. 24

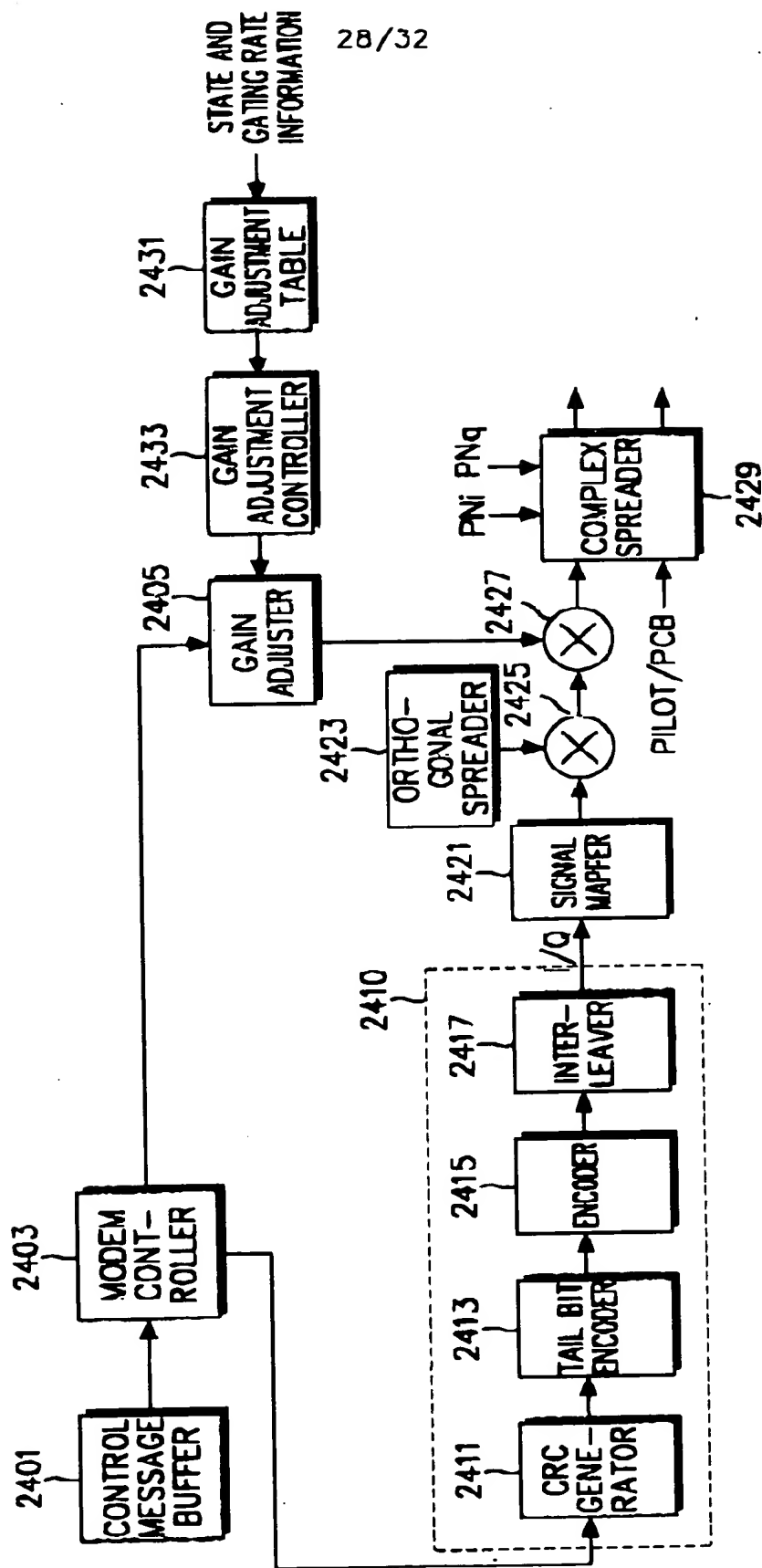


FIG. 25A

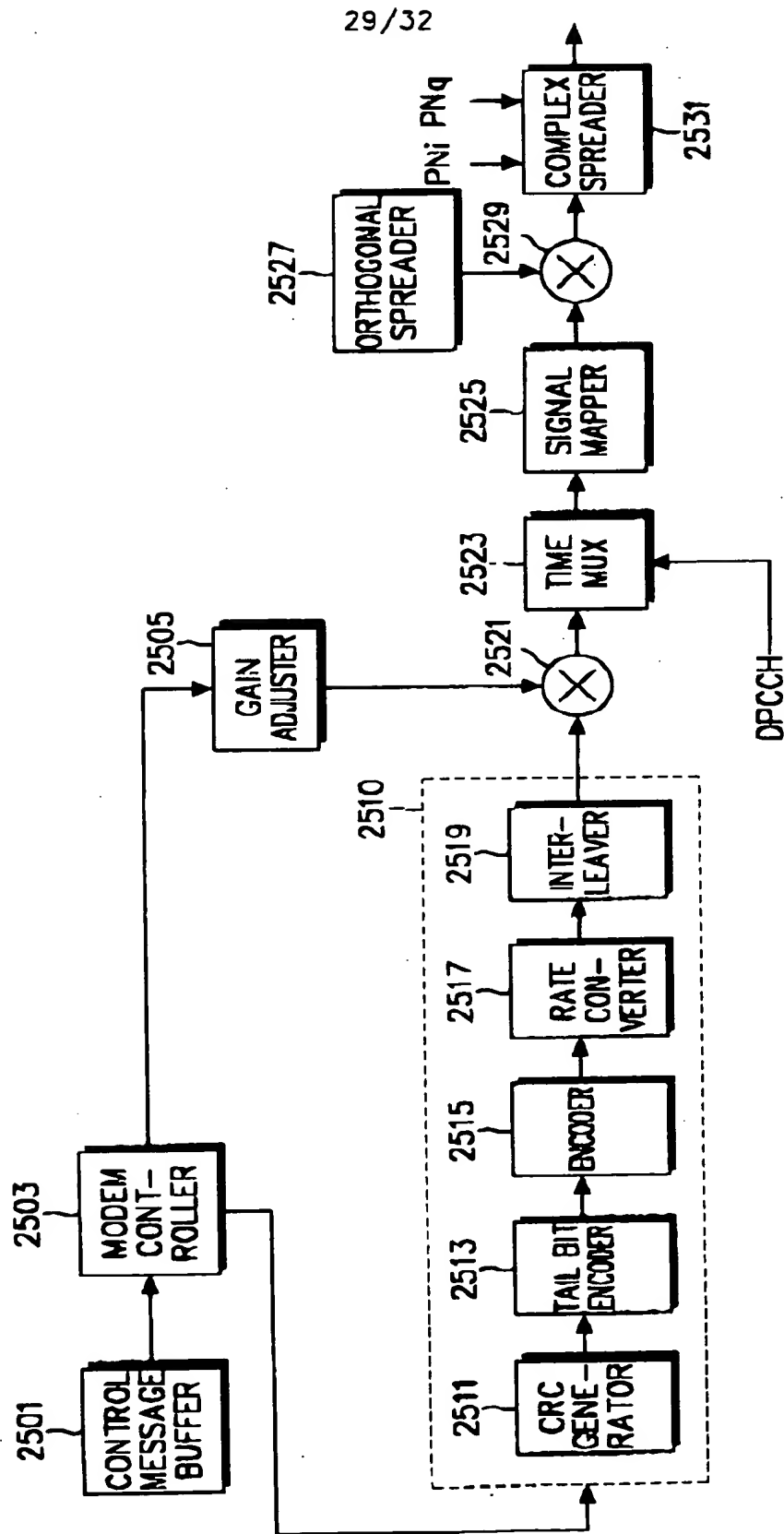


FIG. 25B

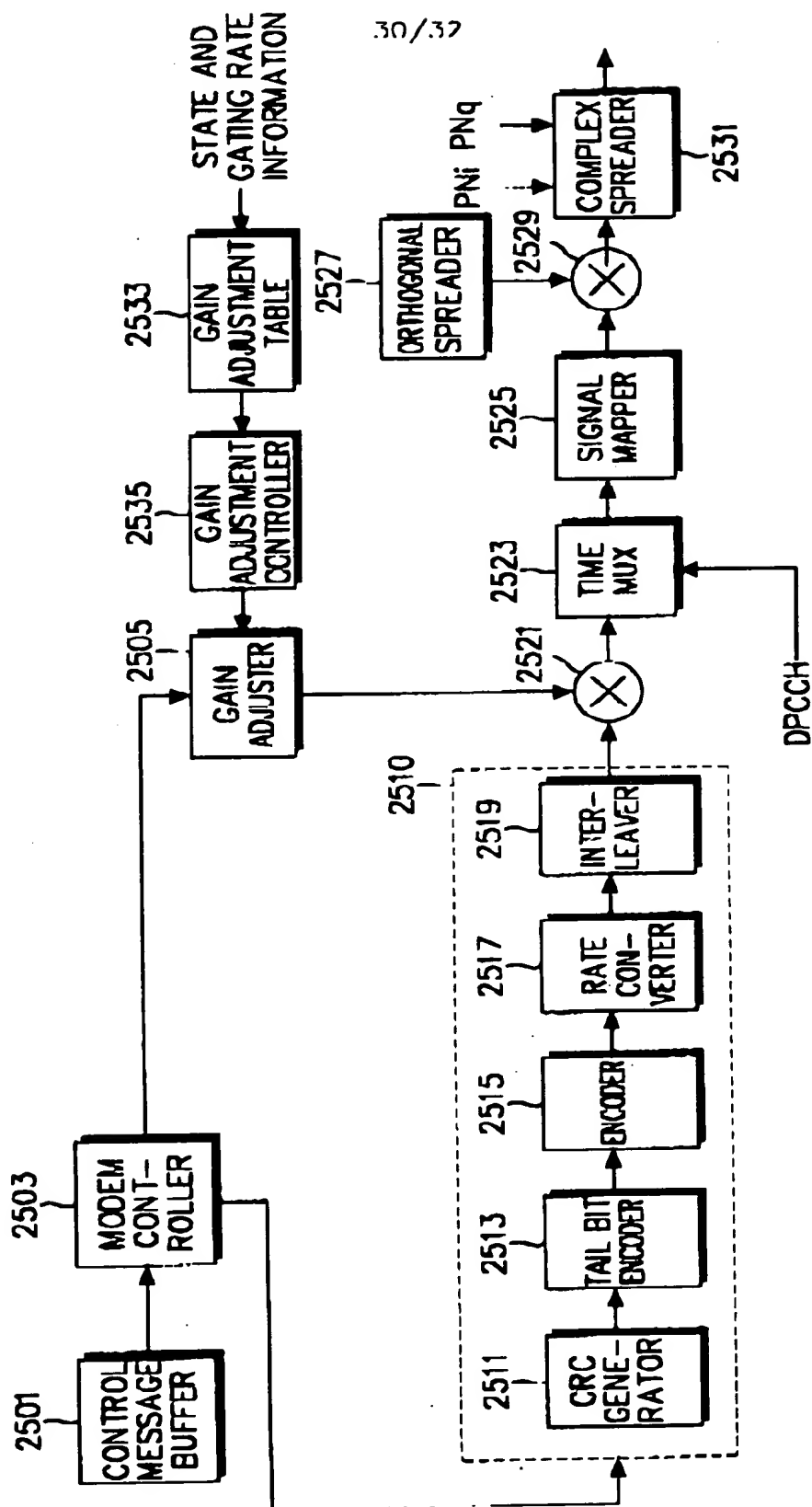


FIG. 26A

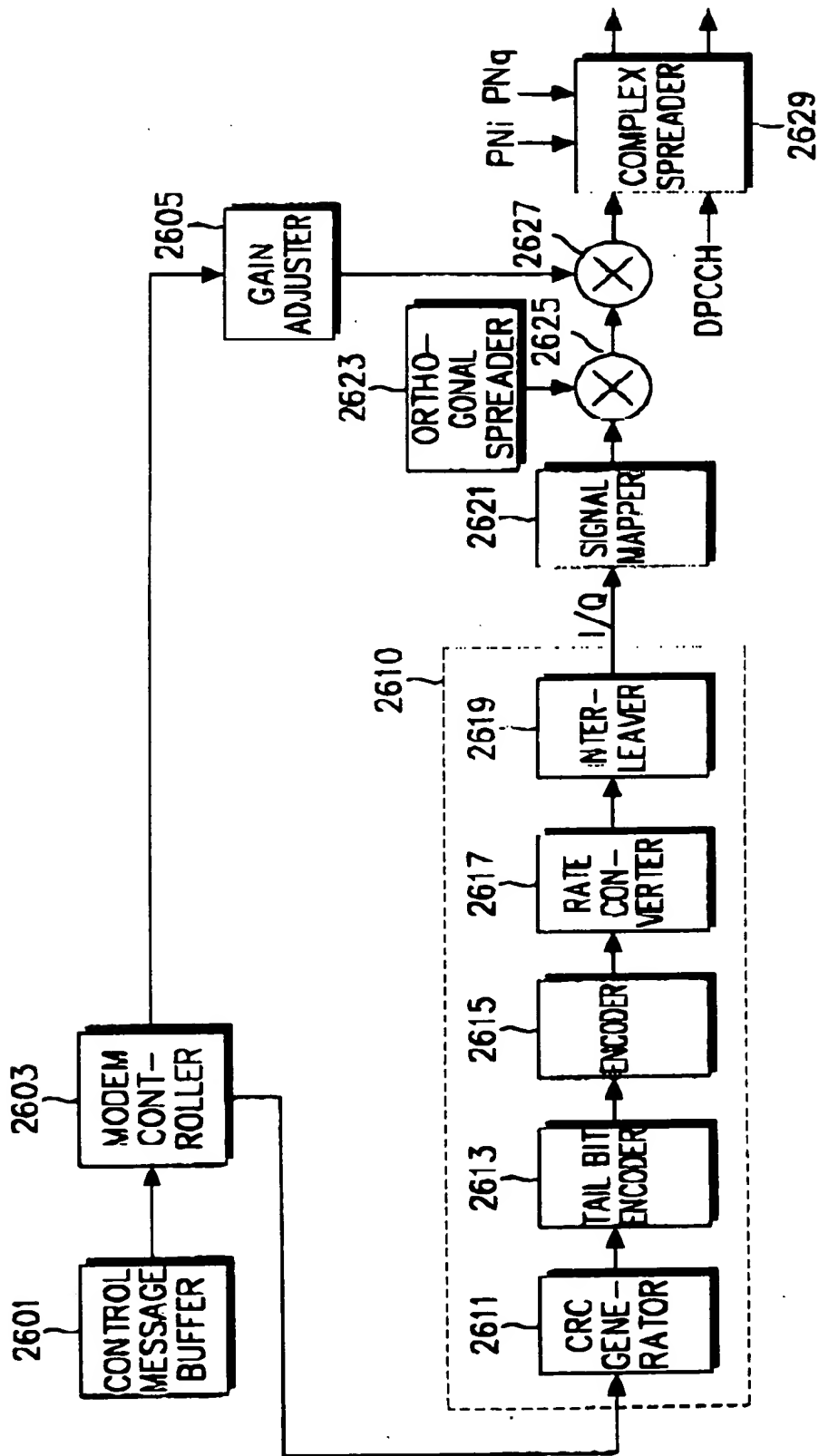


FIG. 26B

